

What is claimed is:

1. An electrical interconnection comprising:
a first planar transmission device having a first conductive region with a
5 first edge;
a second planar transmission device having a second conductive region
with a second edge, the second edge being offset from the first edge; and
a bond wire coupled to the first edge with a first bond and to the second
edge with a second bond.
10
2. The electrical interconnection of claim 1 wherein the first conductive
region is a first center conductor of a first planar transmission line, the second conductive
region is a second center conductor of a second planar transmission line, and the electrical
interconnection further comprises
15 a first opposite edge of the first center conductor;
a second opposite edge of the second center conductor; and
a second bond wire coupled to the first opposite edge with a third bond and
to the second opposite edge with a fourth bond.
- 20 3. The electrical interconnection of claim 2 wherein the first opposite edge is
offset from the second opposite edge.
4. The electrical interconnection of claim 2 wherein the first center conductor
is wider than the second center conductor.
25
5. The electrical interconnection of claim 1 wherein the first bond includes a
ball bond and an intermediate bond, the intermediate bond being closer to the first edge
than the ball bond.
- 30 6. The electrical interconnection of claim 2 wherein the first bond includes a
first ball bond and a first intermediate bond, and the third bond includes a second ball
bond and a second intermediate bond, the first ball bond being closer to an end of the first
center conductor than the second ball bond.

7. The electrical interconnection of claim 6 wherein the first center conductor has a width less than or equal to twice a bond target width.

5 8. The electrical interconnection of claim 2 wherein the first planar transmission device is a first microstrip transmission line and the second planar transmission device is a second microstrip transmission line.

9. The electrical interconnection of claim 1 wherein the first conductive
10 region is a first ground plane of a first co-planar transmission line and the second conductive region is a second ground plane of a second co-planar transmission line

10. The electrical interconnection of claim 1 wherein the first planar
transmission device is a first slot line and the second planar transmission device is a
15 second slotline.

11. The electrical interconnection of claim 1 wherein the second planar
transmission device comprises an integrated circuit and further comprising:
a second bond wire coupled to an opposite edge of the first conductive
20 region with a third bond and to the second conductive region with a fourth bond.

12. An electrical interconnection comprising:
a first planar transmission device having a conductive region with a first
edge and a second edge;
25 a component;
a first bond wire coupled to a first edge with at least a first ball bond and to
the component with a first end bond; and
a second bond wire coupled the second edge with at least a second ball
bond and to the component with a second end bond.

30 13. The electrical interconnection of claim 12 wherein the first planar transmission device is a planar transmission line and the conductive region is a center conductor of the planar transmission line.

14. The electrical interconnection of claim 13 wherein the component is a second planar transmission line having a second center conductor, the first bond wire being coupled to a first edge of the second center conductor, and the second bond wire
5 being coupled to a second edge of the second center conductor.

15. The electrical interconnection of claim 13 wherein the component is an integrated circuit.

10 16. The electrical interconnection of claim 13 further comprising a first intermediate bond coupling the first bond wire to the first edge.

17. The electrical interconnection of claim 16 wherein the first intermediate bond is closer to the first edge than the first ball bond.

15 18. The electrical interconnection of claim 13 further comprising
a first intermediate bond coupling the first bond wire to the first edge; and
a second intermediate bond coupling the second bond wire to the second
edge, wherein the first ball bond is closer to an end of the center conductor than the second
20 ball bond.

19. The electrical interconnection of claim 13 wherein the component is a second planar transmission line having a second center conductor narrower than the center conductor.

25 20. The electrical interconnection of claim 12 wherein the first planar transmission device is a first coplanar stripline transmission structure having a first center conductor and a second center conductor and the component is a second coplanar stripline transmission structure having a third center conductor and fourth center conductor.

30 21. An electrical interconnection comprising:
a first transmission device having a first center conductor with a first edge
and a first opposite edge spaced a first distance apart from a second center conductor with

a second edge and a second opposite edge;

a second transmission structure having a third center conductor with a third edge and a third opposite edge spaced a second distance apart from a fourth center conductor with a fourth edge and a fourth opposite edge;

5 a first bond wire coupling the first edge to the third edge;

a second bond wire coupling the first opposite edge to the third opposite edge;

a third bond wire coupling the second edge to the fourth edge; and

10 a fourth bond wire coupling the second opposite edge to the fourth opposite edge.

22. The electrical interconnection of claim 21 wherein the second transmission structure comprises an integrated circuit.